



## Department of Energy

Washington, DC 20585

June 5, 2007

### MEMORANDUM FOR DISTRIBUTION

FROM:

  
MARK B. WHITAKER, JR.

DEPARTMENTAL REPRESENTATIVE TO THE  
DEFENSE NUCLEAR FACILITIES SAFETY BOARD  
OFFICE OF HEALTH, SAFETY AND SECURITY

SUBJECT: Facility Representative Program Performance Indicators Quarterly Report,  
January – March (1st Quarter CY2007)

Attached is the Facility Representative (FR) Program Performance Indicators Quarterly Report covering the period from January to March 2007. Data for these indicators are gathered by Field elements quarterly per DOE-STD-1063-2006, *Facility Representatives*, and reported to Headquarters program offices for evaluation and feedback to improve the FR Program. A summary of this quarter's data concluded:

72% Fully Qualified (last Quarter was 72%)  
91% Staffing Level (last Quarter was 95%)  
43% Time Spent in the Field (DOE goal is >40%)  
72% Time Spent in Oversight Activities (DOE Goal is > 65%)

Percentages are based on FR staffing analyses at **203** Full Time Equivalents (FTEs) and **185** FTEs actual staffing. In addition, the FR attrition number for 1st Quarter CY2007 was **6**.

Current FR information and past quarterly performance indicator reports are accessible at the Facility Representative web site. Should you have any questions or comments on this report, please contact me or the DOE Facility Representative Program Manager, James Heffner at 202-586-3690.

Attachment



Facility Representative Program Performance Indicators Quarterly Report  
June 5, 2007

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	Manager, Savannah River Operations Office
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	Manager, Y-12 Site Office

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## ENVIRONMENTAL MANAGEMENT SITES

### Facility Representative Program Performance Indicators (1QCY2007)

<u>Field or Ops Office</u>	<u>Staffing Analysis</u>	<u>FTEs</u>	<u>Actual Staffing</u>	<u>% Staffing</u>	<u>Attrition</u>	<u>% Core Qualified</u>	<u>% Fully Qualified</u>	<u>% Field Time *</u>	<u>% Oversight Time **</u>
CBFO	1	2	2	200	0	100	50	60	70
ID (ICP)	13	12	11	85	0	100	83	45	90
OH/WVDP	2	2	2	100	0	100	100	41	65
OR/EM	19	17	16	84	0	94	65	44	68
ORP	14	14	14	100	0	79	79	51	78
PPPO	4	4	4	100	0	100	100	38	70
RL	19	19	19	100	0	89	89	46	73
SR ***	31	31	27	87	4	89	85	47	67
<b>EM Totals</b>	<b>103</b>	<b>101</b>	<b>95</b>	<b>92</b>	<b>4</b>	<b>91</b>	<b>82</b>	<b>46</b>	<b>73</b>
<b>DOE GOALS</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;65</b>

\* % Field Time is defined as the number of hours spent in the plant/field divided by the number of available work hours in the quarter. The number of available work hours is the actual number of hours a Facility Representative works in a calendar quarter, including overtime hours. It does not include leave time (sick, annual, or other) or holidays, nor does it include special assignments greater than 1 week assigned by the Field Element Manager.

\*\* % Oversight Time includes % Field Time

\*\*\* A decrease of four FR's at Savannah River occurred due to three transfers to other divisions and one to the NNSA.

### EM Facility Representative (FR) Highlights:

- At Oak Ridge National Laboratory, FRs continued providing significant oversight at Molten Salt Reactor Experiment in preparation for operation.
- At Oak Ridge National Laboratory, FRs provided significant oversight for major High Efficiency Particulate Air filter change out in facility 3019.
- At ORP, a FR found a radiological area (underground radioactive material area) that was not posted from all angles of approach and reported this to contractor management. The contractor immediately posted the area in accordance with the Radiological Control Manual requirements.
- At ORP, a FR found weaknesses in the contractor's hazardous energy work package planning and development processes. The FR found that the contractor's process did not identify interactions between work packages and the effect that multiple activities could have on performance of the zero energy checks. He also found that there were hazardous energy work package quality issues, including wrong documents, out of date drawings, technical review issues, and package release issues. The FR continues to follow the contractor's hazardous energy work package process corrective actions.
- At ORP, the Waste Treatment and Immobilization Plant (WTP) FR evaluated preliminary test data from a leak test on exhaust ductwork and discovered the testing was not performed in accordance with the prescribed test plan. The contractor was informed. The subcontractor reviewed other test data and found two other instances of procedure/test noncompliance. Corrective actions were developed by the contractor and subcontractor to prevent future non-compliances.
- At PPPO, FRs participated in an investigation of a missing source at Portsmouth Gaseous Diffusion Plant and the ISMS assessment at Paducah.
- At Richland, FRs performed surveillance and operational awareness oversight. Examples include a FR identifying discrepancies between the K-Basins authorization basis implementation matrix and the Final Safety Analysis Report, and a FR identifying an outdated job hazards analysis for the Cold Vacuum Drying Facility.
- At Richland, FRs provided a period of 100% oversight of Environmental Restoration Disposal Facility (ERDF) operations after discovery of falsified compaction records and leachate system operational issues.
- At Richland, the FRs performed a site-wide core surveillance covering the Authorization Basis (AB)

Implementation/USQ Program. In addition, River Corridor Project (RCP) FRs performed Reactive Surveillance of Washington Closure Hanford (WCH) programmatic issues identifying concerns with WCH work planning, feedback and improvement, and Conduct of Operations programs.

- At Savannah River, a Waste Disposition FR discovered errors with the structural integrity program concerning the inspection of waste transfer diversion boxes. After questioning the method being utilized, a detailed inspection of the diversion boxes was performed and degraded conditions were identified during this inspection. Enhancements to the structural integrity inspection program were initiated by the contractor.
- At Savannah River, H-Canyon FRs performed walkdown inspections during wheel replacement and alignment for the New Hot Crane. This involved multiple entries in plastic suit. A FR also participated in a Management Self-Assessment and observed activities at H-Canyon to unload and repack black box RCRA waste.
- At Savannah River, K-Area FRs Conducted Contractor ORR Validation for the K-Area Interim Storage Facility and identified overly conservative safety analysis assumptions reducing the impact on facility operations.
- Idaho Cleanup Project FRs conducted a review of Advanced Mixed Waste Treatment Project Conduct of Operations. A number of issues were identified during routine operation oversight and the ISMS Phase II review. These issues have resulted in a provisional fee deferral for unacceptable safety and quality performance.
- Idaho Cleanup Project FRs participated in a DOE-ID Line Management Assessment for the readiness review of the contractor Remote Handled Transuranic Waste Project at the Idaho Nuclear Technology & Engineering Center. The team concluded that the contractor had achieved a level of readiness that would adequately support safe operations and adequate protection of the workers, public and environment.
- West Valley Demonstration Project (WVDP) FRs identified issues regarding forklifts and less than adequate preventative maintenance. WVDP and ID FRs and contractors conducted a joint forklift benchmarking workshop at Idaho, reviewing events, programs, and corrective actions.

## NUCLEAR ENERGY, SCIENCE, AND TECHNOLOGY

### Facility Representative Program Performance Indicators (1QCY2007)

<u>Field or Ops Office</u>	<u>Staffing Analysis</u>	<u>FTEs</u>	<u>Actual Staffing</u>	<u>% Staffing</u>	<u>Attrition</u>	<u>% Core Qualified</u>	<u>% Fully Qualified</u>	<u>% Field Time *</u>	<u>% Oversight Time **</u>
ID (NE)	11	11	10	91	0	100	90	45	82
OR (NE)	3	3	3	100	1	100	100	42	70
<b>NE Totals</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>93</b>	<b>1</b>	<b>100</b>	<b>92</b>	<b>44</b>	<b>79</b>
<b>DOE GOALS</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;65</b>

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\*\* % Oversight Time includes % Field Time

#### NE Facility Representative (FR) Highlights:

- At Oak Ridge National Laboratory, Helium and Hydrogen Heater testing was successfully completed at the High Flux Isotope Reactor as part of the Cold Source commissioning.
- During a Fire Protection review, a Reactor Technology Complex FR identified several Fire Protection Impairment Tags in effect on multiple fire alarm panels affecting alarm functions to six buildings beyond the 30-day limit. Prompt action was taken by contractor facility management to resolve and correct the deficiencies resulting in the impairments.
- During an operational awareness activity, a Materials and Fuels Complex FR identified several electrical safety deficiencies associated with heavy equipment. Examples include wires pulled loose from connectors, cracked and broken outer insulation exposing inner conductors, and an indoor receptacle box permanently mounted to a fork truck.

## NATIONAL NUCLEAR SECURITY ADMINISTRATION SITES

### Facility Representative Program Performance Indicators (1QCY2007)

<u>Site Office</u>	<u>Staffing Analysis</u>	<u>FTEs</u>	<u>Actual Staffing</u>	<u>% Staffing</u>	<u>Attrition</u>	<u>% Core Qualified</u>	<u>% Fully Qualified</u>	<u>% Field Time *</u>	<u>% Oversight Time **</u>
LASO	11	10	9	82	0	100	38	33	59
LSO	10	9	9	90	0	66	33	53	81
NSO	10	10	7	70	0	100	57	43	67
PXSO	10	10	10	100	0	70	60	46	81
SRSO	4	2	2	50	1	100	100	45	81
SSO	11	11	11	100	0	91	45	31	66
YSO	12	11	11	92	0	100	55	38	62
<b>NNSA Totals</b>	<b>68</b>	<b>63</b>	<b>59</b>	<b>87</b>	<b>1</b>	<b>88</b>	<b>50</b>	<b>39</b>	<b>67</b>
<b>DOE GOALS</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;65</b>

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#### NNSA Facility Representative (FR) Highlights:

- At Livermore, FRs performed an assessment of the contractor's implementation of investigation of abnormal events. Results of this assessment indicated weaknesses in implementing DOE M 231.1-2, "Occurrence Reporting and Processing of Operations Information".
- At Livermore, FRs provided oversight of the contractor's implementation of TSRs at Building 332.
- At Los Alamos a FR supported the Safety Basis Office with the review of the new Waste Characterization, Reduction, and Repackaging Facility DSA and TSRs.
- At Los Alamos, a FR identified several issues dealing with improper waste storage at the Radioactive Liquid Waste Treatment Facility resulting in improved Waste Management practices.
- At Nevada, FRs performed a Nevada Test Site site wide limited scope Conduct of Operations Assessment.
- At Pantex, FRs supported two NNSA Readiness Assessments.
- At Savannah River, a FR performed around the clock coverage of initial radioactive operations at the new Tritium Extraction Facility.
- At Savannah River, a FR performed several programmatic self-assessments in preparation for an upcoming CDNS assessment
- At Y-12, a FR provided oversight of the contractors actions to recover from the Building 9204-2E chip fire. The recovery is continuing and corrective actions have been initiated.
- At Y-12, a FR noted a shaft guarding issue with an old piece of equipment that was being refurbished to be used in new production activities. The contractor had installed all the original guards supplied by the manufacturer and had no plans of installing any additional guarding prior to use. Following the FRs questioning, the contractor fabricated and installed the additional guarding.

## OFFICE OF SCIENCE SITES

### Facility Representative Program Performance Indicators (1QCY2007)

<u>Area/Site Office</u>	<u>Staffing Analysis</u>	<u>FTEs</u>	<u>Actual Staffing</u>	<u>% Staffing</u>	<u>Attrition</u>	<u>% Core Qualified</u>	<u>% Fully Qualified</u>	<u>% Field Time *</u>	<u>% Oversight Time **</u>
AMES	1	1	1	100	0	100	100	28	75
ASO	5	5	5	100	0	100	100	25	82
BHSO	6	6	6	100	0	100	50	37	78
FSO	2	2	2	100	0	100	100	51	99
OR (SC)	2	2	2	100	0	100	100	34	76
PNSO	2	1.5	1.5	75	0	100	100	48	79
<b>SC Totals</b>	<b>18</b>	<b>17.5</b>	<b>17.5</b>	<b>97</b>	<b>0</b>	<b>100</b>	<b>83</b>	<b>35</b>	<b>81</b>
<b>DOE GOALS</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;65</b>

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\*\* % Oversight Time includes % Field Time

### SC Facility Representative (FR) Highlights:

- At Fermi, FRs were involved in numerous safety activities and initiatives. These included the DOE FSO Fire Protection Review of Fermilab, DOE FSO Fall Protection Review of Technical Division, DOE FSO Conduct of Operations Review, preparation for the Accelerator Safety Workshop, and development of the 10 CFR 851 Implementation Plan.
- At Oak Ridge, FRs continued operational oversight of ORNL non-reactor nuclear facilities as well as accelerator facilities.
- At Pacific Northwest, a FR discovered the contractor unintentionally discharging waste water to the pavement outside of the Environmental Molecular Science Lab and informed contractor personnel, who promptly stopped the discharge and took action to prevent it from recurring.
- At Pacific Northwest, a FR monitored well-drilling activities on the PNNL Site in support of the design and construction of the Capability Replacement Lab.
- At the Brookhaven Site Office, a FR completed a laser safety assessment of Brookhaven National Laboratory with several corrective actions identified.
- At the Brookhaven Site Office, a FR completed a series of Conduct of Operations assessments with the contractor.